

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### East Fork Little Blue River

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#### Waterbody Segment at a Glance:

**County:** Jackson  
**Nearby Cities:** Kansas City  
**Length of impairment:** 0.2 miles  
**Pollutant:** Volatile Suspended Solids (VSS)  
**Source:** Independence Mobile Home Park WWTP



State map showing location of watershed

**Entry reflects proposed change on the 2002 303(d) from “Nonfilterable Residue” to “Volatile Suspended Solids”**

**TMDL Priority Ranking:** Low

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#### Description of the Problem

##### Beneficial uses of East Fork Little Blue River

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life and Human Health associated with Fish Consumption

##### Use that is impaired

- Protection of Warm Water Aquatic Life

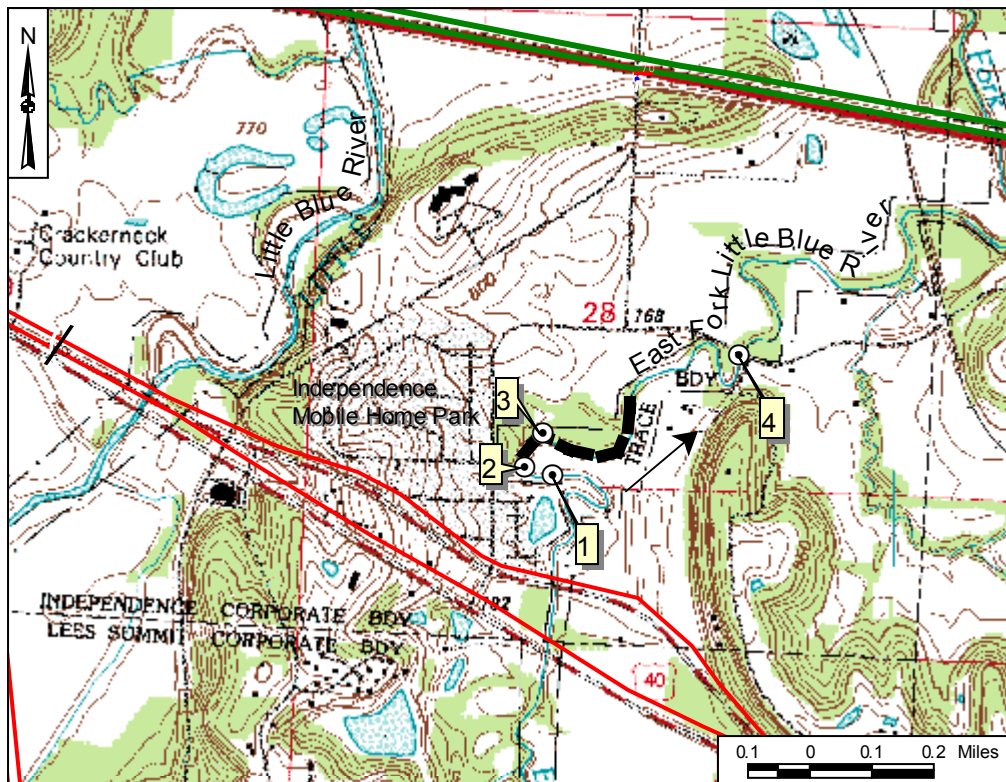
##### Standards that apply

- Standards for Volatile Suspended Solids (VSS) is found in the general criteria section of the WQS, 10 CSR 20-7.031(3)(A) and (C) where it states:
  - Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses
  - Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses

Any waterbody that was listed for Non-Filterable Residue (NFR) in 1998 is now being listed as Volatile Suspended Solids (VSS). VSS are organic solids coming from wastewater treatment plants. The new listing gives a clearer picture of the specific pollutants affecting the water.

Sewage sludge is present on the bottom of East Fork Little Blue River downstream from the Independence Mobile Home Park wastewater treatment plant (WWTP). Also, fewer types of aquatic invertebrates (water insects and crayfish) occur there than in the past; that is, diversity has been reduced. VSS can settle onto the bottom of a stream smothering natural substrates (materials in the streambed), aquatic invertebrate animals and fish eggs. Like all wastewater discharges in Missouri, this WWTP has to meet the requirements of a discharge permit issued by the department. To improve this river, the goal is to get the WWTP connected to the regional sewer system. This would remove the discharge from East Fork Little Blue River, eliminating the problem.

### East Fork Little Blue River in Jackson County, Missouri, Showing Sampling Sites



----- Impaired Segment      —————> Direction of flow

#### Site Index

- 1 – Upstream from effluent outfall
- 2 – Effluent outfall
- 3 – 80 yards downstream of outfall
- 4 – 0.4 mile downstream of outfall

### Results of Stream Survey – September 8, 1999

Site #	Flow (cfs)	Specific Conductivity (umhos/cm)	Physical and Biological Observations
1	0.15	512	Clear water, gravel and cobble substrate, minnows and heptagenid mayflies present.
2	0.05		No comments made.
3	0.2	580	Thick sludge deposits throughout streambed, minnows, physa snails, and bloodworms present.
4	0.2	525	No evidence of sludge. Heptagenid mayflies present.

Source: Missouri Department of Natural Resources

**For more information call or write:**

Missouri Department of Natural Resources

Water Pollution Control Program

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